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<http://www.codeguru.com/atl/templateinterface.shtml>
CodeGuru - ATL/WTL Programming

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MINIMUM_INTERFACE(A91EBC05-87C0-11d2-9947-C26F54DDB3BE, int, M);
MINIMUM_INTERFACE(A91EBC09-87C0-11d2-9947-C26F54DDB3BE, double);

The interfaces generated will be: IMinimumDouble and IMinimumInt.

But it's not over, we must declare the name which will be written in the registry.

Here are the macros:

```
#define BEGIN_NAME_MAP() CPP_QUOTE( "#define NAME_MAP( \\" )
#define END_NAME_MAP() CPP_QUOTE( \" )
#define NAME_ENTRY(NAME) CPP_QUOTE( OLECHAR g_wsz##NAME[] = L\"
```

The macro BEGIN_NAME_MAP define a macro in the generated header file.

```
BEGIN_NAME_MAP()
    NAME_ENTRY( MinimumInt )
    NAME_ENTRY( MinimumDouble )
END_NAME_MAP()
```

Now we will generate another macro in the generated header file to add all objects.

```
#define BEGIN_OBJECT_MAP() CPP_QUOTE( "#define OBJECT_MAP( "
#define END_OBJECT_MAP() CPP_QUOTE( " "
#define OBJECT_ENTRY(NAME) CPP_QUOTE( OBJECT_ENTRY( CLSID _
```

We use it in the IDL file like that:

```
BEGIN_OBJECT_MAP()
    OBJECT_ENTRY( MinimumInt )
    OBJECT_ENTRY( MinimumDouble )
END_OBJECT_MAP()
```

The last step is the library declaration:

```
#define BEGIN_LIBRARY()
{
    uuid(0969E542-87B7-11D2-9947-C26F54DDB3BE),
    version(1.0),
    helpstring("codeguru 1.0 Type L")
}
library CODEGURULIB
{
    importlib("stdole32.tlb");
    importlib("stdole2.tlb");

#define END_LIBRARY()

#define LIBRARY_ENTRY( CLSID, NAME )
[
```

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```
        return _Module.UpdateRegistryFromResourceD( IDR_
    )
};
```

There is only one tricky part: the registration of the object in the registry. To access instance of %ObjName% and %ObjCLSID% will be replaced with the content of case. The interface supported is given as a template parameter. We will see now.

Using preprocessor macros to define the interface in IDL.

Four information is needed in the template object to be able to create the interface library associated with the interface.

We define the interface in IDL as:

```
#define CPP_QUOTE( name ) CPP_QUOTE( #name )
#define MINIMUM_INTERFACE( IID, TYPE, NAME )
{
    uuid( IID ),
    pointer_default(unique)
}
interface I##NAME : IUnknown
{
    HRESULT Min( [in]TYPE a, [in]TY:
    CPP_QUOTE( "#ifdef __cplusplus"
    CPP_QUOTE( "#ifdef _MINIMUM_
    CPP_QUOTE( extern OLECHAR g_wsz
    CPP_QUOTE( EXTERN_C const CLSID
    CPP_QUOTE( typedef CMi
    CPP_QUOTE( " " )
    CPP_QUOTE( I##NAME )
    CPP_QUOTE( " " )
    CPP_QUOTE( 4CLSID_##NAME )
    CPP_QUOTE( " "
    CPP_QUOTE( g_wsz##NAME )
    CPP_QUOTE( > C##NAME;
    CPP_QUOTE( "#endif" )
    CPP_QUOTE( "#endif" )
```

The first part is the declaration of the interface, the second part write a typedef must use multiple lines. You can see we are passing the TYPE, the Interface, the as I appended to the name.

We can declare the interface for int and double as follow:

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```
        uuid(CLSID)
        coclass NAME
        {
            [default] interface I##NAME;
        };
};
```

It look like this for our two objects:

```
BEGIN_LIBRARY()
    LIBRARY_ENTRY( A91EBC0E-87C0-11d2-9947-C26F54DDB3BE, Mi:
    LIBRARY_ENTRY( A91EBC11-87C0-11d2-9947-C26F54DDB3BE, Mi:
END_LIBRARY()
```

Adding entry in the main object map.

In your main project file, you must add two lines:

```
NAME_MAP() //a macro we have generated
BEGIN_OBJECT_MAP(ObjectMap)
    OBJECT_MAP() another macro we have generated
END_OBJECT_MAP()
```

Conclusion.

The concept is kind is simple viewing by this angle. But be careful, as more example greater.

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Date Posted: December 1, 1998

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DATAMATION

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```

>         }
>         interface IMySink : IDispatch
>     {
>         [id(1), helpstring("method OnDataIn")] HRESULT
> OnDataAvail([in] long DataLen);
>         [id(2), helpstring("method OnClose")] HRESULT
> OnClose([in] long ErrNo);
>     };
>
> The problem my events never got called. Any help
>
> the calling code is
>
>     CoCreateInstance(CLSID_EventGen, NULL, CLSCTX_ALL,
> IID_EventGen, (void**) &pServer);
>     _ASSERT(pServer != NULL);
>
>     CComObject<CMySink>* pMySink = NULL;
>
>     CComObject<CMySink>::CreateInstance(&pMySink);
>
>     DWORD dwAdvise = 0;
>
>     hRes = AtlAdvise(pServer, pMySink->GetUnknown(),
> IID_EventGen, &dwAdvise);
>
>     short lRetVal;
>     pServer->OpenConnection(&lRetVal);
>     pServer->CloseConnection(&lRetVal);
>
>     AtlUnadvise(pServer, IID_EventGen, dwAdvise);
>
>     pServer->Release();
>
> I never got the events fired.
>
> Any help is appriciated.
>
> Thanks
> sathish

```

Date: Mon, 23 Feb 1998 23:12:55 -0500
From: Steve Lathrop <[PRIVACY PROTECTION]>
Subject: Re: Getting images to VB

scott,

I'd recommend using a SAFEARRAY of bytes inside a VARIANT. I'm using this technique to xfer images over DCOM between an ATL client and a server (with dual interface). Once the array gets to your client, you can just spit it out to a file using the standard Win32 File I/O functions.

If you want to "stream" the data over to the client, I'd consider

exposing an IEnumXXX interface on your server that gives you, say chunks of the image at a time. That way, you can allow your client to cancel the xfer at any time, instead of blocking during a potentially long method call.

Steve

Steve Lathrop, Consultant & Director
Winning Solutions, Inc.
<http://www.winningsolutions.com>

> -----Original Message-----
> From: Scott Burgett [SMTP:[PRIVACY PROTECTION]]
> Sent: Monday, February 23, 1998 10:06 AM
> To: ATL6LISTSERV.MSN.COM
> Subject: Getting images to VB
>
> I'm trying to get a series of images to a VB client from a DCOM
> that I'm
> creating using ATL. What's the best way to package up the data?
> assuming
> that I have to implement IDataObject on the server side so that
> get to
> it. What I am not clear about is that if I use IDataObject to
> multiple
> images, do I need to use IStorage with IStreams?
>
> These images can be rather large, so from what I have seen on the
> listserv, I
> may want to write a custom IStream to package up the data. If
> that, then
> I know I will have to implement a method on the client side to
> to
> unpackage that data as well.
>
> Any info and/or advice would be greatly appreciated.
>
> Thanks,
> Scott
>

Date: Mon, 23 Feb 1998 22:34:36 -0500
From: Aleks Kleyn <[PRIVACY PROTECTION]>
Subject: Re: template

Thank you, Charles for your help. The solution was little another, your advice helped to find it. I added default constructor, but `private` went on. The names that link showed were very important. I tried a different combination. Using trial and error I discovered that not definition but functions themselves have to be present in the modi where I used `HdxChain<Int>`. From my email is not seen directly that used 3 different types in project. How I understand from this temp behaves like macro and itself does not create any object code. Now go ahead.

go ahead.
Aleks Kleyn

-----Original Message-----

From: Charles Vaz <[PRIVACY PROTECTION]>

To: ATL@LISTSERV.MSN.COM <ATL@LISTSERV.MSN.COM>
Date: Sunday, February 22, 1998 12:44 AM
Subject: Re: template
=20
=20
Hi,
First of all ' class Int ' needs a default constructor because
the declaration ' HdxObject<T>::HdxObject(T TNew) '
Hence, a simple solution is to give default values for the
parameters to
the ' Int ' constructor.
Hence, the following changes in chain.h
=20
class Int {

 Int(int da =3D0 ,int db=3D0);

};
=20
This should compile and link fine under MSDEV 5.0
=20
Regards,
=20

Charles Vaz.
Software Design Engineer,
Tektronix Engineering Development (India) Pvt. Ltd.
Tek Towers, Hayes Road, Bangalore-560 025.
Phone: (080)2275577 Extn:3222
=20

=20
-----Original Message-----
From: Aleks Kleyn <[PRIVACY PROTECTION]>
To: ATL@LISTSERV.MSN.COM <ATL@LISTSERV.MSN.COM>
Date: Sunday, February 22, 1998 4:23 PM
Subject: template
=20
=20
Before using ATL I tried to use just template in plain C++. But
gives
me errors
=20
TempMain.obj : error LNK2001: unresolved external symbol "pub:
class
 HdxObject<class Int> _thiscall HdxChain<class Int>::AddNew(
Int)"
 (?AddNew@SHdxChain@VInt@0@0@QAE@AV@HdxObject@VInt@0@0@VInt@0@0@
TempMain.obj : error LNK2001: unresolved external symbol "pub:
_thiscall
 HdxChain<class Int>:_HdxChain<class Int>::(void)"
 (?_HdxChain@HdxChain@VInt@0@0@QAE@XZ)
=20
=20
Below my simple code

```
Int(int da,int db);
int a;
int b;
};

=20
#include "Chain.h"
=20
void main()
{
HdxChain<Int> as1;
Int a1(5,6);
as1.AddNew(a1);
Int a2(2,5);
as1.AddNew(a2);
}
=20
What link does not like and how to prove code.
Thank you, Aleks Kleyn.
=20
-----
Users Guide =
http://www.microsoft.com/sitebuilder/resource/mailfaq.asp
search
=20
```

End of ATL Digest - 23 Feb 1998 (#1998-84)

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COM/ATL Issues

Last Modification: December 12, 2001

Q: HOWTO: Reuse interface implementation in source in ATL projects - part II: base and derived interfaces

A: A common phenomenon during the evolution of a component is the development of never extended version of one or more interfaces usually by deriving from the old interfaces:

```
interface ISomething : IUnknown
interface ISomething2 : ISomething
interface ISomething3 : ISomething
```

Another possible case is designing the component to have it implement a series of cascaded interfaces - interfaces that derive in a chain:

```
interface IBase : IUnknown
interface IDerived : IBase
interface IDerived2 : IDerived
interface IDerived3 : IDerived
interface IDerived4 : IDerived2
```

In both cases it is desirable to share the implementation of the base interfaces throughout the project. This is accomplished through the use of C++ templates. Let's consider the following simple derivation chain:

```
interface IBase : IUnknown
interface IDerived : IBase
```

The C++ templates we'll use look as following:

```
template <typename Itf>
class IBaseImpl : public Itf
{
    // Implement the IBase methods here
};

template <typename Itf>
class IDerivedImpl : public Itf
{
    // Implement the IDerived methods here
};
```

And a class that's using these implementations would look like the following:

```
class ATL_NO_VTABLE CAt10bj :
public CComObjectRootEx<CComMultiThreadModel>,
public CComCoClass<CAt10bj, &CLSID_At10bj>,
public IDerivedImpl<IDerived>;
```

<http://www.mvps.org/vcfaq/com/8.htm>

HOWTO: Reuse interface implementation in source in ATL projects - part II: base and de... Page 3 of 3

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<http://www.mvps.org/vcfaq/com/8.htm>

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```
public:
    CAt10bj() {}

DECLARE_REGISTRY_RESOURCEID(IDR_AT10BJ)
DECLARE_NOT_AGGREGATABLE(CAt10bj)

BEGIN_COM_MAP(CAt10bj)
    COM_INTERFACE_ENTRY(IBase)
    COM_INTERFACE_ENTRY(IDerived)
END_COM_MAP()
```

Note IDerivedImpl<> does not derive from IDerivedImpl<>, but instead it is passed in as a template parameter. This allows you to have multiple implementations of IBase and use them wherever appropriate. However, if this is not essential for your design, but you do have a deep interface inheritance hierarchy, it might be beneficial to simplify the ATL object class' derivation by explicitly deriving from the implementation of the base interface in the implementation of the derived interface.

```
template <typename Itf>
class IBaseImpl : public Itf
{
    // Implement the IBase methods here
};

template <typename Itf>
class IDerivedImpl : public IBaseImpl<Itf>
{
    // Implement the IDerived methods here
};

class ATL_NO_VTABLE CAt10bj :
public CComObjectRootEx<CComMultiThreadModel>,
public CComCoClass<CAt10bj, &CLSID_At10bj>,
public IDerivedImpl<IDerived>;

public:
    CAt10bj() {}

DECLARE_REGISTRY_RESOURCEID(IDR_AT10BJ)
DECLARE_NOT_AGGREGATABLE(CAt10bj)

BEGIN_COM_MAP(CAt10bj)
    COM_INTERFACE_ENTRY(IBase)
    COM_INTERFACE_ENTRY(IDerived)
END_COM_MAP()
```

Please read the first part of this article for techniques on how to deal with code bloat and dual interfaces. Note you can mix the techniques from this and the first part:

```
template <typename T, typename Itf>
class IDerivedImpl : public Itf
{
    // Implement the IDerived methods here
    // In a method that requires services from the derived class
    T* pT = static_cast<T*>(this);
    pT->SomeMethod();
    ...
};
```

References and samples:

- COM FAQ 7: HOWTO: Reuse interface implementation in source in ATL projects - part I: standalone interfaces

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17. [Exploring Template Template Parameters](#) ... we use a second template template parameter, which has the ... Knowing only this interface, a user could create ... Programming languages - C++, ISO/IEC 14882, 1998 ... [www.progdoc.de/papers/ftp/psi-tp/psi-tp.html](#) cached | more results from this site
18. [- allocator\(3C++\) Standard C++ Library Copyright 1998, Rogue Wave](#) ... 3C++ Standard C++ Library Copyright 1998, Rogue Wave ... Each container has an allocator template parameter specifying ... so it must have an appropriate interface ... [www.math.ias.edu/computing/docs/solaris8/man/cat3c++/allocator.3](#) cached | more results from this site
19. [ECG IST-2000-26473 Effective Computational Geometry for Curves ... \(PDF\)](#) ... under the "Information Society Technologies" Programme (1998-2002) ... ; We mentioned that the second template parameter of the ... ; 3 User Interface The user ... [www-sop.inria.fr/prisme/personnel/karavelas/awvd2/ecg-implementation.pdf](#) view as html
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9. [allocator](#) ... Interface template types the raw storage based on the template parameter. ... Alternate Interface ... document Contents Index Next file Copyright (c) 1998, Rogue Wave ... [www.scl.kyoto-u.ac.jp/scl/appii/manual/SUNWspro/WS6U2/ja/manuals/stdlib/stdref/all_7029.htm](#) cached | more results from this site
10. [CodeGuru - ATL/WTL Programming](#) ... The interface supported is given as a template parameter. ... [uuid\(CLSID\)\coclass NAME\{\[default\] interface IIDNAME; 1\};](#) ... Date Posted: December 1, 1998 ... [www.codeguru.com/atl/templateinterface.shtml](#) cached
11. [Geocrawler.com - help-g++ - 2.6.0 does templates better than 2.6](#) ... [TREE_TYPE \(parm\)\) { sorry \("aggregate template parameter types"\); TREE_TYPE ... if \(interface_unknown || iflag_external_templates\) p->interface = 1; /* unknown ... \[www.geocrawler.com/archives/3/362/1994/12/0/2043672/\]\(#\) cached](#)
12. [repo_pl - repository object interface](#) ... repo_pl - repository object interface. ... The optional \$Template parameter should be a ref to a hash ... was imported (DD-Mon-YYYY, eg '8-Jan-1998') submitted_by [char ... [www.wifm.org/wrm-pod/repo.html](#) cached
13. [Larch/C++ Reference Manual - Requirements on Template Parameters](#) ... describe the requirements on the template parameter for a ... Id: SimpleSetRequirement.lsl, v. 1.1 1998/08/29 21 ... SimpleSetTrait used in the interface specification of ... [www.cs.iasstate.edu/~leavers/larchc++/manual/lcpp_155.html](#) cached
14. [// Dereferencer.h // This file contains the BTL_InD and ...](#) ... Copyright (C) 1997, 1998 Birkbeck College ... together with BTL_InD provide a // uniform interface for the ... to be used must be // provided as the template parameter. ... [People.cryst.bbk.ac.uk/~classlib/BTL3/btl/Dereferencer.h](#) cached
15. [AnyDBM](#) ... Copyright © WebThing Ltd, 1998: all rights reserved ... AnyDBM is a completely unified interface to the ... The underlying implementor is merely a Template parameter. ... [www.webthing.com/software/AnyDBM/](#) cached
16. [ATL Digest - 23 Feb 1998 \(#1998-84\)](#) ... to make sure the interface is a dual interface, not a ... The third > template > parameter for tDispatchImpl is the GUID of ... Sent: Monday, February 23, 1998 12:33 ... [www.faqhost.com/msdn/ATL/atl-98/atl-9802/atl98022406_08419.html](#) more results from this site

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3. [HOWTO: Reuse interface implementation in source in ATL projects](#) ... only using the derived class as a template parameter was shown, you can put whatever template parameters are needed for customizing the interface implementation ... www.mvps.org/vcfaq/conv7.htm cached | more results from this site
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5. [Carlo Wood - Re: what's next](#) ... -benjamin About the allocator template parameter, that is my original design. I just thought you'd like the C interface more easily heheh ... gcc.gnu.org/ml/libstdc++/2002-12/msg00056.html cached | more results from this site
6. [Octopull/C++: Compile Time Indirection](#)); This works because interface has access to impl and can use it as a template parameter and because state1<> has access to its template parameter. ... www.octopull.demon.co.uk/c++/CompileTimeIndirection.html cached
7. [unique_view Type](#) ... The properties of any unique_view instance depend on the properties of the container template parameter. The interface of unique_view adapts itself [!] to the ... www.zib.de/weiser/vti/unique_view.html cached | more results from this site
8. [pool_alloc - Boost Pool Standard Allocators](#) ... The typedef user_allocator publishes the value of the UserAllocator template parameter ... by the allocators is accessible through the Singleton Pool Interface. ... www.boost.org/libs/pool/doc/interfaces/pool_alloc.html cached | more results from this site

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18. [allocator](#) ... The interface template types the raw storage based on the template parameter. Only the implementation object is passed into a container. ... www.litho.ucalgary.ca/opi/SPRO/tools7/lib/stdlbc/lall_7029.htm cached | more results from this site
19. [Programming with Interfaces in Java](#) ... Notice that C++ templates are a form of implicit interface. When you define a class template in C++ and then use the template parameter in the body of the ... csis.pace.edu/~bergin/papers/interface.html cached | more results from this site
20. [boost::python, returning new PyObject references](#) ... (for interface or something? ... About base_object.hpp: > You use python_type as the name of a template parameter > template<class python_type> > struct ... mail.python.org/pipermail/c++-sig/2001-December/00675.html cached | more results from this site

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9. [Using a Template to Define an Interface A Template Stack ... \(PDF\)](#) ... the Complete Stack Implementation We can define the stack template parameter to be ... that is given as the type parameter to the Stack interface must implement ... www.cs.utexas.edu/users/avender/courses/ee360c/lectures/lecture-11.pdf view as html | more results from this site
10. [Namespaces and the Interface Principle](#) to operate the way it does because of the Interface Principle ... error C2784: 'class std::reverse_iterator<'template-parameter-1', 'template-parameter-2', 'template ... www.gotw.ca/publications/mill08.htm cached | more results from this site
11. [d3forums - Default type-value for template parameter type](#) ... d3forums Archive for: comp.lang.c++ Default type-value for template parameter type Click here to see this thread with ... This is an object cache interface used to ... d3forums.com/arch/89/2003/9/905659 cached
12. [Using Dreamweaver Template Expressions at InformIT.com](#) earlier, template parameters are either entered by hand or by using Dreamweaver's editable attribute user interface. If the template parameter is entered ... www.informit.com/isapi/product_id~%7BEE21DAB0-2302-4DE3-8990-23B84C003310%7D/content/index.asp cached | more results from this site
13. [Boost Mailing List Archive - Re: \[boost\] Named Template ...](#) ... Wouldn't it allow some > decoupling of template parameter processing (the <class> metaimplementation) from the class interface, similar to the > pimpl idiom? ... lists.boost.org/MailArchives/boost/msg33145.php cached | more results from this site
14. [15.3 Building Your Own Allocators](#) ... In this interface, the class allocator interface provides all types and typed ... as raw bytes using the class provide by the Allocator template parameter. ... www.ccd.bnl.gov/bc/cluster/pgi/pgC++_lib/stdlbug/bui_2068.htm cached | more results from this site
15. [AXP OpenVMS Cluster Help CXXLSTD allocator](#) ... Each container has an allocator template parameter specifying the type of allocator to be ... allocator, but if you do so it must provide an appropriate interface. ... www.vms.gsi.de/HELP/CXXLSTD/ALLOCATOR cached | more results from this site
16. [IPC::XPA - Interface to the XPA messaging system](#) ... NAME, IPC::XPA - Interface to the XPA messaging system. SYNOPSIS. ... Retrieve data from the servers specified by the \$template parameter. ... he-www.harvard.edu/MST/simul/software/docs/html/IPC::XPA.html cached | more results from this site
17. [>Blitz-dev Archive -- BZDEV: zip\(\) interface](#) of the zip0 interface, it is possible to omit the trailing parameter in the function call and explicitly indicate the type via a template parameter, as in: A ... conumerics.org/MailArchives/blitz-dev/msg00193.php cached | more results from this site

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1. Neohapsis Archives - Microsoft DCOM Discuss - Re: Interface ... [PDF](#)
From: Sievert, James A (James.Sievert_at_UNISYS.COM) Date: Wed Oct 02 2002 - 08:41:35 CDT. ... In DCOM, reserve interface inheritance for interface "expansion" ... archives.neohapsis.com/archives/microsoft/variouse/dcom/2002-q4/0003.html [View as HTML](#) | more results from this site
2. <http://www.faqchest.com/msdn/DCOM/dcom-02/dcom-0210/dcom-021000/> [PDF](#)
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4. [Managed Object Behavior Inheritance and Scattering Support in TIMS \(POSTSCRIPT\)](#) [PDF](#)
... any of its interfaces, namely the management interface or the ... Axel, Herpers (Martine), Holden (David) et Sievert (Stephan ... 91) Rumbaugh (James), Blaha (Michael ... www.simpleweb.org/bibliography/articles/general/sid9511.ps [View as HTML](#)
5. [Diversity in 2002 \(PDF\)](#) [PDF](#)
... 14 M 5/18/02 Sievert, S. 1 ... presented Dimondale Elementary School Principal James Cooper (center ... the science of fire, urban-wildland interface issues, politics ... www.michigan.gov/documents/july02_PG_33675_7.pdf [View as HTML](#)
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... dimensionless, item, litre, newton, sievert, ... render them in HTML in a graphical user interface. ... Daniel Lucio, Pedro Mendes, Eric Mjolsness, James Schaff, Bruce ... www.ods.caltech.edu/eralo/sbml/docs/sbml-level-1/html/sbml-level-1.html [View as HTML](#) | more results from this site
7. [Systems Biology Markup Language \(SBML\) Level 1: Structures and ... \(PDF\)](#) [PDF](#)
... This inheritance hierarchy is depicted in Figure 1. SBase Compartment Unit Model Reaction Specie KineticLaw Parameter Rule SpecieConcentrationRule ... xml.coverpages.org/sbml-level-1.pdf [View as HTML](#)
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... Open arrows indicate inheritance, pointing from inheritors to their parents (Eriksson ... Iter mole siemens weber dimensionless item litre newton sievert Table 4 ... www.sbw-sbml.org/workshops/sixth/sbml-level-1.pdf [View as HTML](#) | more results from this site

9. [Unified Medical Language System \(UMLS\) \(CBM 96-8\)](#) [PDF](#)
... David A. Evans, Ph.D. Columbia University, James J. Cimino ... In the future, the UMLS may serve as an interface between medical ... O'Keefe KM, Sievert M, Mitchell JA ... www.nim.nih.gov/pubs/cbm/umlscbm.html [View as HTML](#)
10. [Using Software Engineering Metrics In AP Modularization A thesis ... \(PDF\)](#) [PDF](#)
... to design complexities capturing features such as complexity of inheritance hierarchies [17,24], coupling and cohesion [2,17], and interface complexity [5,15]. ... etd-submit.etsu.edu/etd/theses/available/ctd-0718101-161918/unrestricted/owusu-teku0013a.pdf [View as HTML](#)
11. [.NET and COM: Working Together \(PDF\)](#) [PDF](#)
... was just running into the unique personality of Beta 1. James Sievert also helped ... like this allows code from other languages to find the interface methods and ... www.softinsight.com/DotNetandCOM.pdf [View as HTML](#)
12. [Systems Biology Markup Language \(SBML\) Level 2: Structures and ... \(PDF\)](#) [PDF](#)
... Open arrows indicate inheritance, pointing from inheritors to ... component, then the user interface should display ... dimensionless item litre newton sievert Table 2 ... www.biopax.org/Docs/EXT_sbml-level-2.pdf [View as HTML](#)
13. [Abstract EURODAC'94](#) [PDF](#)
... Both, B. Biermann, R. Lerch, Y. Manoli, K. Sievert ... Software Partitioning and Minimizing Memory Interface Traffic ... Michael J. Alexander, James P. Cohoon, Joseph L ... ballade.cs.ucla.edu/~kohcc/sigda94/comp1994/euro94/abstract.htm [View as HTML](#)
14. [Binoj's C++ links page](#) binoj@unbounded.com Search: c++ tutorial ... [PDF](#)
... Introduction to C++ - James C. Hu View a quick ... www.telematik.informatik.uni-karlsruhe.de/~sievert/stl-tutorial ... CGI is the Common Gateway Interface which allows ... www.geocities.com/binoj7/cpp.txt [View as HTML](#)
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16. [IGRT Book/PM 6 w/pix \(PDF\)](#) [PDF](#)
... It is the study of this interface in plant systems that forms the theme of the Graduate Research Training program at ASU. ... James Allen and Neal Woodbury. ... photoscience.la.asu.edu/photosyn/GRT-book1.pdf [View as HTML](#)

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1. Re: [!"Sievert, James A" <James.Sievert@UNISYS.com>] XML Schema ... [\[more\]](#)
Re: [!"Sievert, James A" <James.Sievert@UNISYS.com>] XML Schema question for you...
lists.w3.org/Archives/Public/www-xml-schema-comments/2000JulSep/0040.html
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2. Neohapsis Archives - Microsoft DCOM Discuss - Re: Hi Keith!
DCOM ... [\[more\]](#)
... > Sam Gentile > System Architect > OTG > > --Original Message---- From: Sievert, James A [mailto:James.Sievert@UNISYS.COM] > Sent: Thursday, March 08 ...
archives.neohapsis.com/archives/microsoft/variouz/dcom/2001-q1/1203.html
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3. [XmlRpc-Java] I'd like to see a slight change to XmlRpcServer... [\[more\]](#)
[XmlRpc-Java] I'd like to see a slight change to XmlRpcServer... Sievert, James A James.Sievert@UNISYS.com Tue, 29 Aug 2000 14:51:53 -0500: ...
xmlrpc.helma.org/archives/xmlrpc/2000-August/000171.html
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4. XML Candidate Recommendation Issues List [\[more\]](#)
... Description: James Sievert of Unisys has identified the following issue: --- I understand this up to the point at which I see an example like the following ...
www.w3.org/2000/xp/Group/xmlp-cr-issues.html
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5. Mathew Reynolds' .NET 247 : System.Runtime.Remoting ... [\[more\]](#)
... From: "Sievert, James A" James.Sievert@UNISYS.COM Reply To: dotnet.discussion DOTNET@DISCUSS.DEVELOP.COM To: DOTNET@DISCUSS.DEVELOP.COM Subject: Re ...
www.dotnet247.com/247/reference/System/Runtime/Remoting/ObjectHandle.aspx? v=2
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6. COTS Digital Signatures Workgroup Education Day Agenda [\[more\]](#)
... of General Services, mmaupin@dgs.state.vt.us, (804) 786-3281, (804) 371-8305. Mavrides, James, Dept. ... Sievert, Bob, Dept. ... Fehn, Sally, Unisys, Horkey, Michael, Unisys, ...
www.cots.state.vt.us/dsi/eduday.htm
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7. Fredonia Alumni E-Mail Page (By Class Year) [\[more\]](#)
... musingman@aol.com or (David.Ulien@unisys.com) Linda ...
Satone@worldnet.att.net Barbara Sievert - (BJSievert@juno ... state.ny.us) Jim Wasson - (james.wasson@redstone ...
www.fredonia.edu/alumni/1970.htm
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8. Stillwater Area High School Class of 1997 Directory [\[more\]](#)
... Neils, Justin, Justin.neils@unisys.com, AIM: Waller0. ... Pruden, James,

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prud0010@tc.umn.edu, 612-over-1049 ... Sievert-Whaley, Christine, christinesievert@yahoo.com, 715-247 ...
www.sahs1997.com
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9. Representative Offices [\[more\]](#)
... Telex: fax(es): 238083; Head: Mr.CHARLES E SIEVERT; Activity: ENGINEERING ... Telex: fax(es): Head: Mr.PATRICK JAMES LOOPAN; Activity: CONSULTING ... Name: UNISYS CORP. ...
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12. THE NATIONAL ELECTRONIC COMMERCE COORDINATING COUNCIL CONFERENCE (RTF) [\[more\]](#)
... 517-323-0300. 517-335-0046. mulaneyk@state.mi.us. James S. Hurst. Accounting & Finance Director. Dept. ... 775-634-5800. 775-684-5846. James R. Wells. Chief Accountant. ...
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www.cs.nps.navy.mil/people/faculty/rowe/coursematerials/validwords.txt
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Using Interface Inheritance to Address Problems in System Software Evolution (1994) (Make Corrections) (9 citations) Graham Hamilton Sanjay Radia Sun ... ctseer.nj.nec.com/1543.html cached | more results from this site

3. [\[DUG\]: Interface Inheritance](#)

... [DUG]: Interface Inheritance. From: Todd Martin; ... Hi Does anyone know if there's a way to test for interface inheritance? For example IFirstDescendant ... www.mail-archive.com/delphi@delphi.org.nz/msg18352.html cached | more results from this site

4. [www-ws-desc@w3.org from April 2003: "recursive" interface](#)

"recursive" interface inheritance. From: Liu ... interface inheritance"; Maybe reply: Savas Parasatidis: "RE: "recursive" interface inheritance"; ... lists.w3.org/Archives/Public/www-ws-desc/2003Apr/0155.html cached | more results from this site

5. [Interface inheritance](#)

... Interface inheritance. The CORBA standard ... The question arises, how things are handled when interface inheritance is used. MICO offers two ... emily.solis.wisc.edu/mico_docs/doc/node50.html cached | more results from this site

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7. [Bill de Hóra: interface inheritance](#)

... December 18, 2002. interface inheritance. ... Interface inheritance is actually useful in terms of being able to say what you want to say. Taking Mark's examples of ... www.dehora.net/journal/archives/000116.html cached | more results from this site

8. [Interface inheritance](#)

next up previous Next: Modules Up: C++ mapping Previous: Unions Interface inheritance. ... Figure 5.2: C++ class hierarchy for interface inheritance. ... vision.eng.shu.ac.uk/corba/mico/doc/doc/node63.html cached

9. [IUnknown and Interface Inheritance](#)

Because no implementations are associated with interfaces, interface inheritance does not mean code inheritance. ... IUnknown and Interface Inheritance. ...

msdn.microsoft.com/library/en-us/com/html/com_9v6t.asp cached | more results from this site

10. [Grant Kilian](#)

... Me: Implementation Inheritance, or Interface Inheritance, that is the Question ... This is also known as "Interface Inheritance." Take the following code: ... www.dotnetjunkies.com/WebLog/grant.kilian/posts/1276.aspx cached

11. [Interface Inheritance](#)

Interface Inheritance. You can choose not to derive CheckingAccountImpl() from AccountImpl(). ... Interface inheritance facilitates encapsulation. ... www.iona.com/support/docs/e2a/asp5.0/mainframe/pguide_cpp/html/ServerBasics18.html cached | more results from this site

12. [Interface Inheritance](#)

Interface Inheritance #3: Versioning. ... www.twoguru.com/playground/cs_tutorial/oop/interface_inheritance/versioning.htm cached | more results from this site

13. [ORBIt-2.0-cpp problem with multiple interface inheritance](#)

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